Montana Comprehensive Assessment System (MontCAS, Phase 2)

Criterion-Referenced Test (CRT)

COMMON CONSTRUCTED-RESPONSE ITEM RELEASE
MATHEMATICS, GRADE 4

2009

OPI

OFFICE OF PUBLIC INSTRUCTION

For information, contact Measured Progress, P.O. Box 1217, Dover, NH 03821-1217.
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Mathematics
Session 1 (No Calculator)

You may NOT use a calculator during this session.

Write your answer in the space provided for it in your Student Response Booklet. Show all of your work.

25. The clock below shows what time a movie will start.

a. What time will the movie start?

The movie is 105 minutes long.

b. How long is the movie in hours and minutes? Show or explain how you found your answer.

c. What time will the movie end? Show or explain how you found your answer.

Scoring Guide

Score	Description
4	5 points
3	4 points
2	3–2 points
1	1 point
0	Response is incorrect or contains some correct work that is irrelevant to the skill or concept being measured.
Blank	No response.

Scoring Notes

Part a: 1 point — correct answer, **2:05**

Part b: 2 points — correct answer, **1 hour and 45 minutes**, with explanation or work shown
OR
1 point — correct answer, **1 hour and 45 minutes**, without explanation or work shown

Part c: 2 points — correct answer, **3:50**, with explanation or work shown
or
correct answer based on incorrect answer in part a, with explanation or work shown
or
correct answer based on incorrect answer in part b, with explanation or work shown
OR
1 point — correct answer, **3:50**, without explanation or work shown

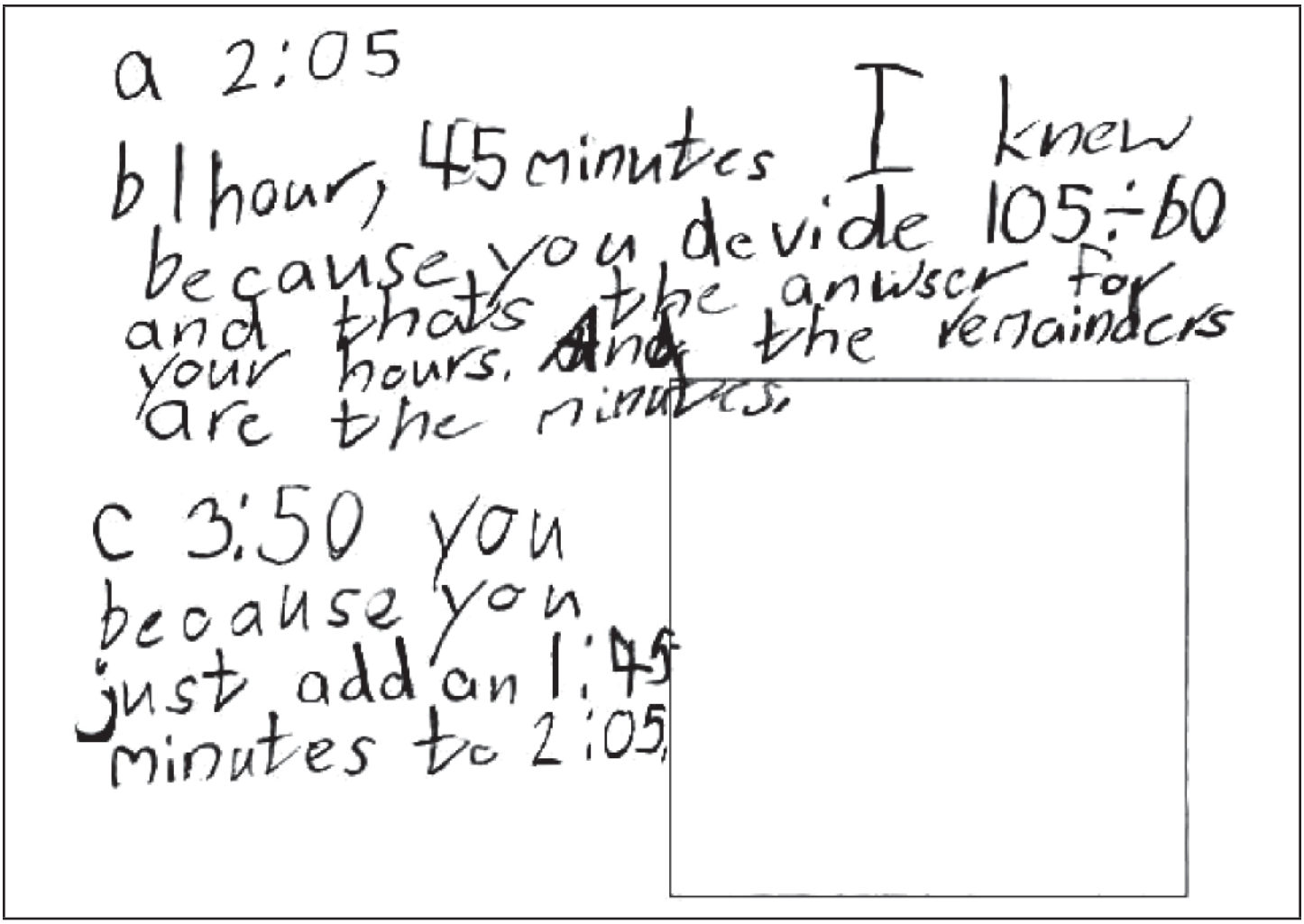
Sample Responses:

Part b: There are 60 minutes in an hour, so 105 minutes is the same as 1 hour and 45 minutes.
or
105 – 60 = 45 - 1 hour and 45 minutes

Part c: The movie starts at 2:05 and lasts for 1 hour and 45 minutes, so I added 1 hour and 45 minutes to 2:05 to get 3:50.

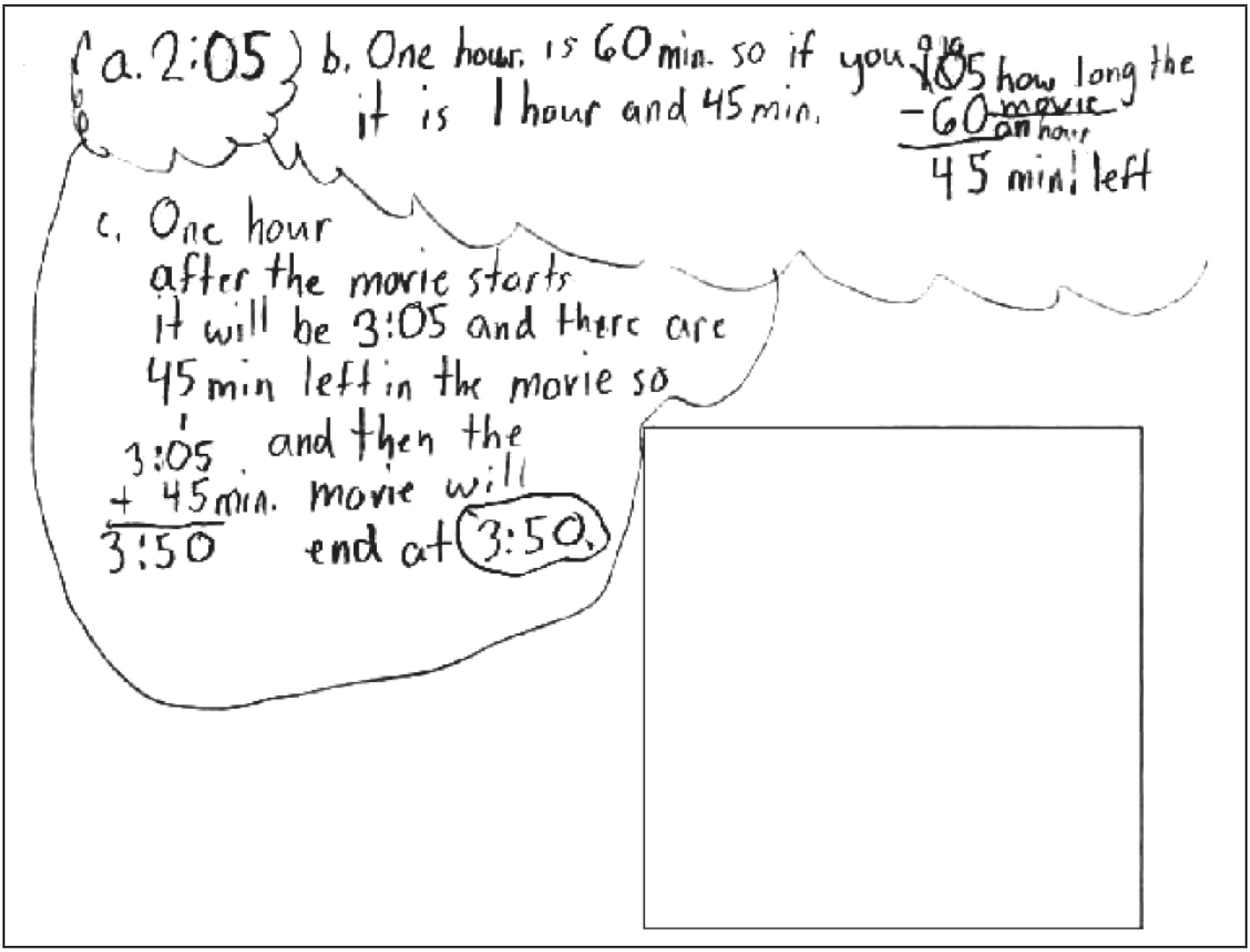
Score Point 4

Sample 1



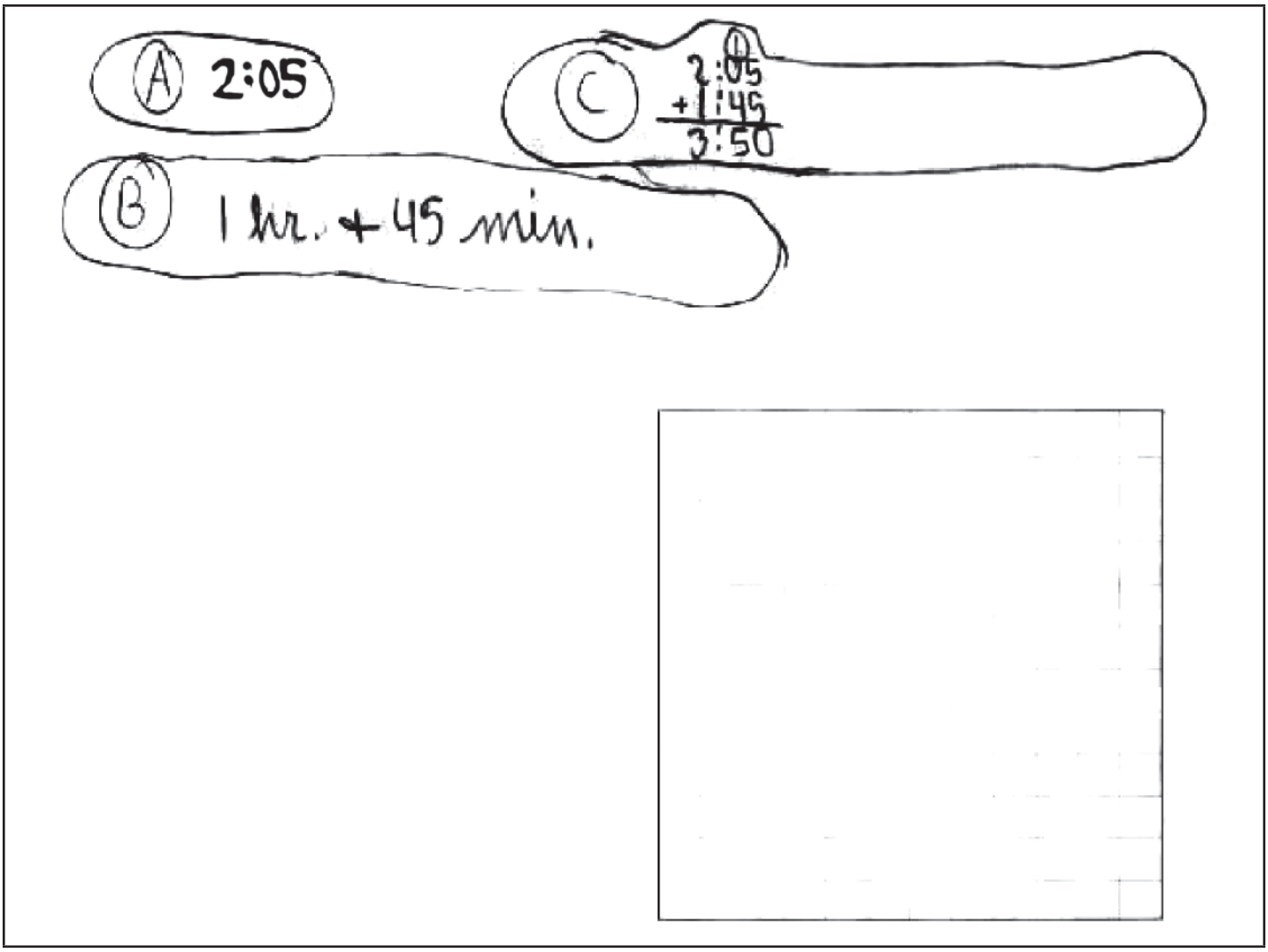
Score Point 4

Sample 2



Score Point 3

Sample 1



Score Point 3

Sample 2

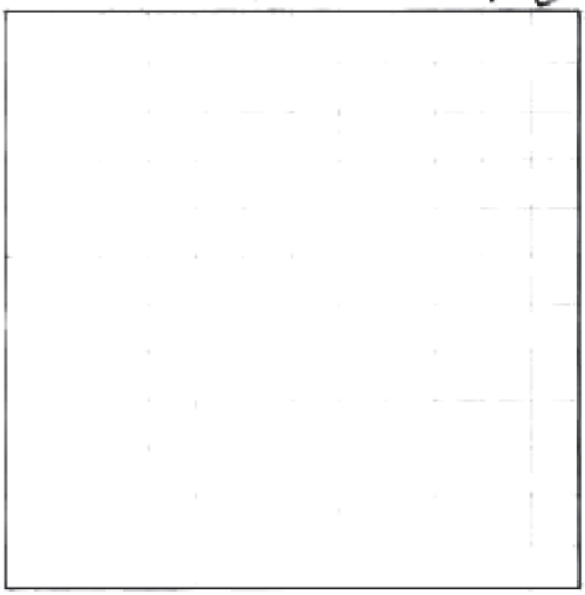
2:05

1 hour 45 min.

I subtracted 60 from 105 because 60 min. is a hour. then add 45 to one hour.

$$\begin{array}{r} {}^{0}\cancel{1}{}^{1}05 \\ -\ 60 \\ \hline 45 \\ +100 \\ \hline 145 \end{array}$$

3:50 I looked at the clock hand pointed with my hand and fowned out.



Score Point 3

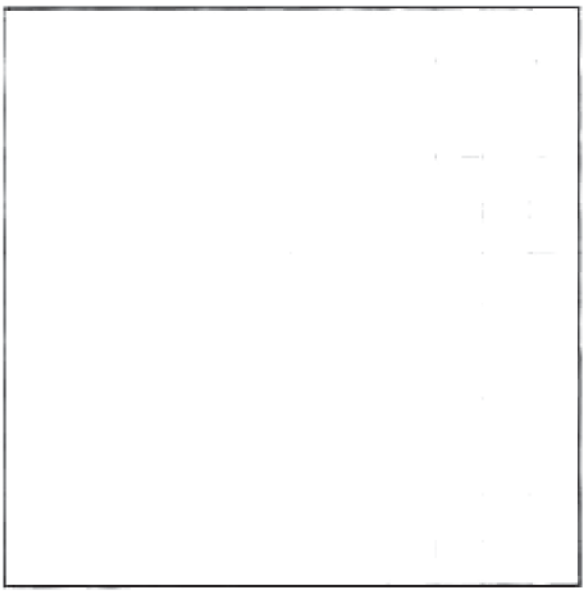
Sample 3

a. 2:05

b 60+45=105 1hr. 45 min.

C. 3:50

1hr. 



Score Point 2

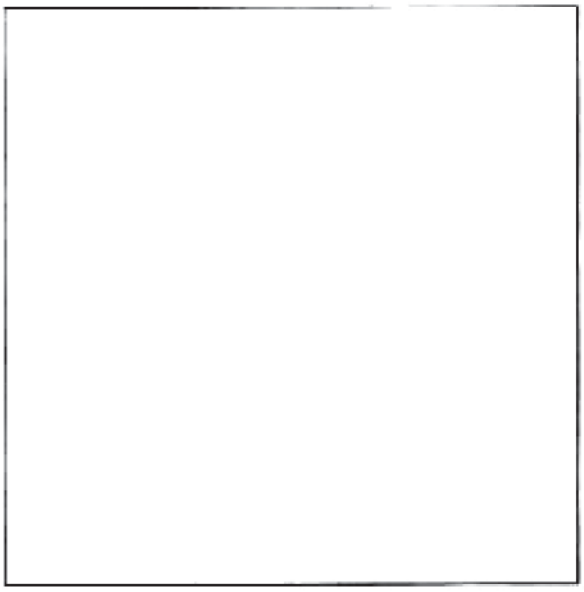
Sample 1

The Movie starts at 2:05

$$\begin{array}{r} 50 \\ +\ 50 \\ \hline 100 \end{array}$$ hour = 1 hour 5 minuts

5 minuts

The movie ends at 3:10

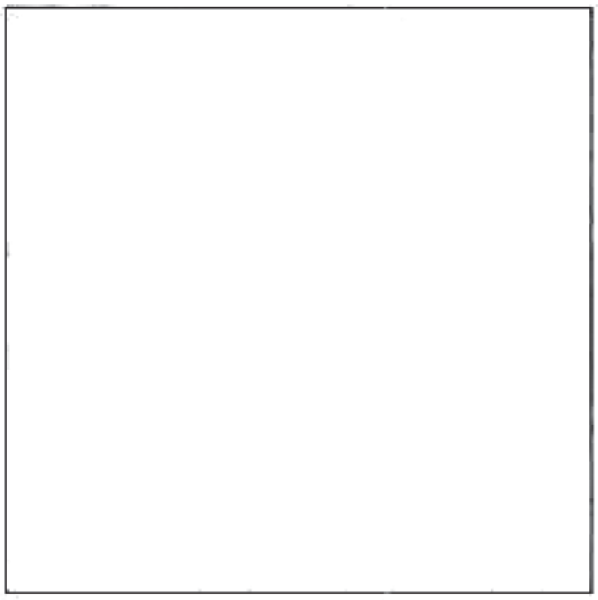


Score Point 2

Sample 2

a. 2:05
B. 1:25 Minute Cause I added
C. 330 i added the 2:05
and the 1:25 and i got
2.05 3:30
1.25
330

60
60
120
5
125



Score Point 2

Sample 3

1 hour and 45 minutes

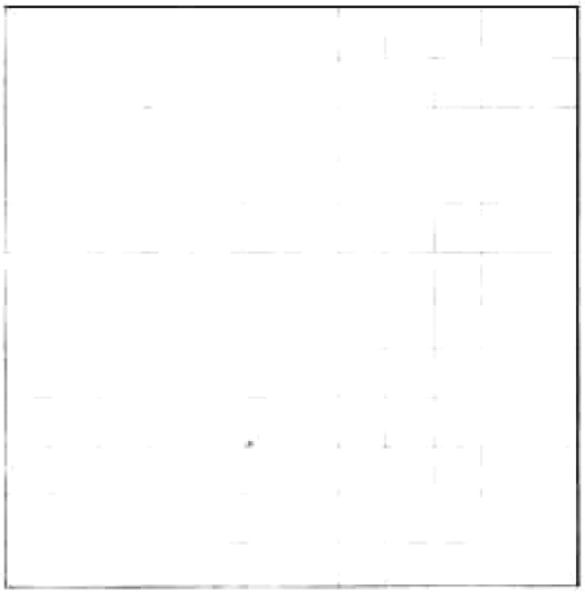
1:58

1hr 105
-60
45

Score Point 2

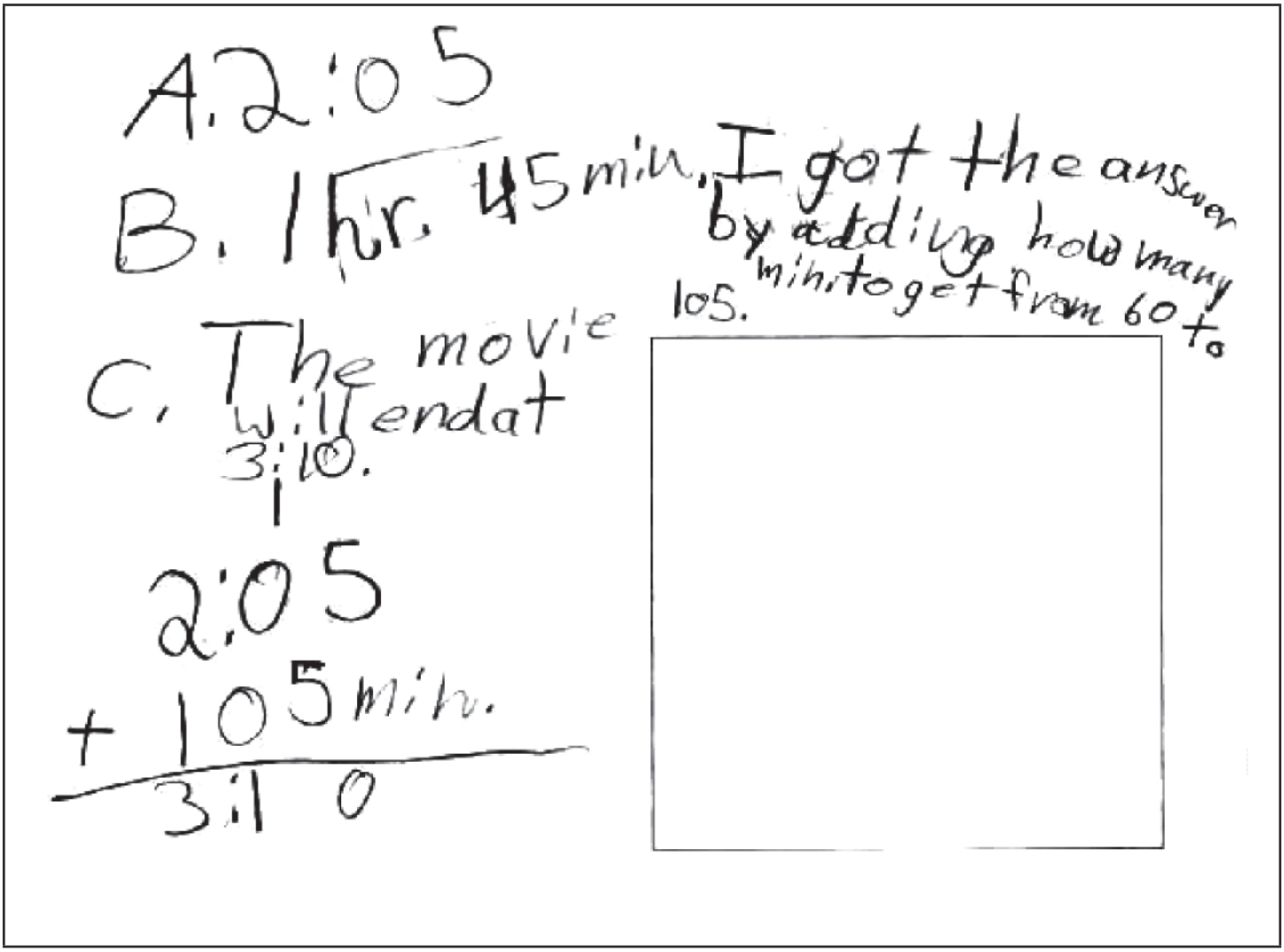
Sample 4

The movie will start at 2:05. The movie is 1 hour and 45 minets long. The movie will end at 3:15.



Score Point 2

Sample 5

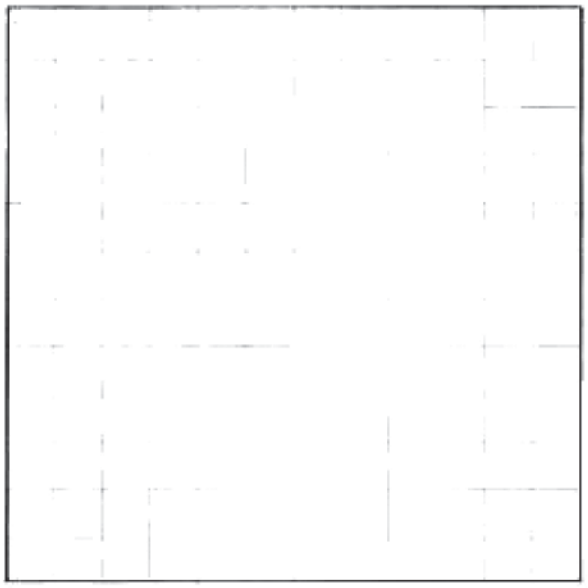


Score Point 1

Sample 1

A. 2:05 B 3:10

1
2:05
+1:05
C. 3:10



Score Point 0

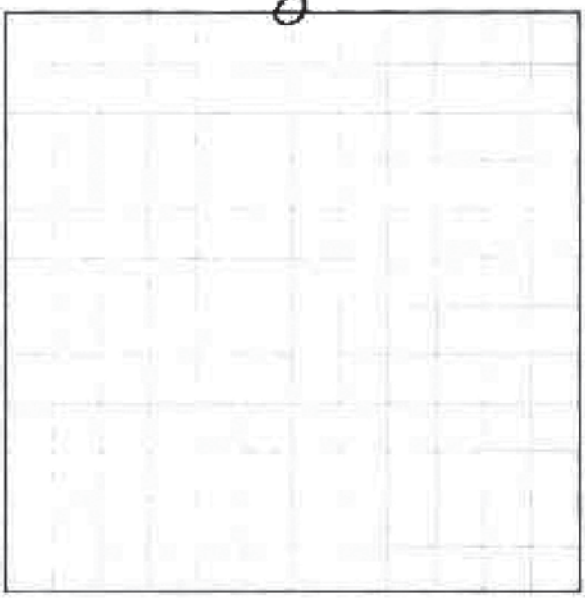
Sample 1

a. 10:00

b 11:00, 1:00 I found my answer by multiplying,

11:00
+ 1:00
2:00

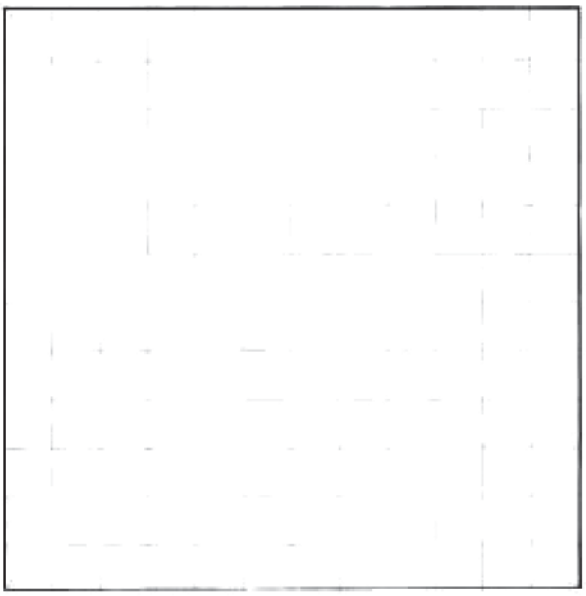
c. 8:00. I found my answer by subtracting.



Score Point 0

Sample 2

The movie will end at 2115. How I got the answer an hower would be 2:10 plus 5 more minuts gives you 2:15.



Score Point 0

Sample 3

a. 1:10

B. 1 hour 10 seconds

c. 7:10